

Title (en)

BIOSENSOR FOR HEMATOCRIT DETERMINATION.

Title (de)

BIOSENSOR ZUR HÄMATOKRITBESTIMMUNG.

Title (fr)

BIOCAPTEUR POUR DETERMINER L'HEMATOCRITE.

Publication

EP 0653068 A1 19950517 (EN)

Application

EP 94919338 A 19940603

Priority

- US 9406237 W 19940603
- US 7219893 A 19930603

Abstract (en)

[origin: WO9429731A1] A biosensor (1) and method for determining the hematocrit level of a whole blood sample (11) using electrochemistry. The biosensor (1) includes working (4) and counter (5) electrodes. A porous membrane (9) is impregnated with an electroactive compound and is spatially displaced from the surface of the electrodes (4, 5). When a whole blood sample (11) is applied to the porous substrate (9), a mixture of the electroactive compound and the blood (11) is formed. The mixture settles on the electrodes (4, 5) and a potential difference is applied sufficient to oxidize or reduce the electroactive compound and generate a current. This current can be measured and correlated to hematocrit level.

IPC 1-7

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IPC 8 full level

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